

**DIN – Material – No.:** 1.2358

**Code**
**Comparable standards**

Chemical composition	C	Si	Mn	Cr	Mo	V
( Typical analysis % )	0,60	0,30	0,80	4,50	0,50	0,25

**Steel properties** High alloyed hot work tool steel.

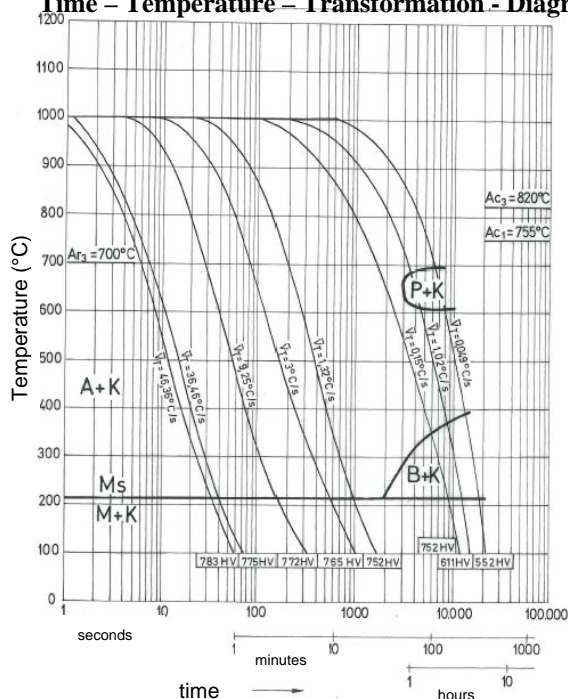
Physical properties	Coefficient of linear thermal expansion								
	$10^{-6} \text{ } ^\circ\text{C}^{-1}$	20-100	20-200	20-300	20-400	20-500	20-600	20-700	20-800 $^\circ\text{C}$
		11,7	12,5	12,9	13,5	13,6	13,7	13,9	

**Applications** Cutting tools, shear blades for hot work, rolls,

<b>Heat treatment</b>	Soft annealing	800 - 840 $^\circ\text{C}$	Slow cooling in furnace. Hardness max. 255 HB
	Hardening	980 – 1010 $^\circ\text{C}$	Quenching in Oil or Air. Hardness after quenching min. 60 HRC.
	Tempering	Tempering chart	Air cooling to ambient temperature.

Hardened from 1000 $^\circ\text{C}$ . single tempering

$^\circ\text{C}$	200	300	400	500	550	600	700		
HRC	58	55	54	54	50	45	30		

**Time – Temperature – Transformation - Diagram**

**Tempering Diagram**
